

FILE 'HOME' ENTERED AT 11:23:21 ON 28 JUN 2006

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 11:23:37 ON 28 JUN 2006  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

## 11 FILES IN THE FILE LIST

```
=> s dicarboxylic acid
FILE 'MEDLINE'
      5936 DICARBOXYLIC
      1409582 ACID
L1      2758 DICARBOXYLIC ACID
                  (DICARBOXYLIC(W)ACID)
```

FILE 'SCISEARCH'  
      8261 DICARBOXYLIC  
      1134896 ACID  
L2      4474 DICARBOXYLIC ACID  
                 (DICARBOXYLIC (W) ACID)

```
FILE 'LIFESCI'
      1312 "DICARBOXYLIC"
      302444 "ACID"
L3      985 DICARBOXYLIC ACID
          ("DICARBOXYLIC" (W) "ACID")
```

FILE 'BIOTECHDHS'  
        461 DICARBOXYLIC  
        139129 ACID  
L4       356 DICARBOXYLIC ACID  
                 (DICARBOXYLIC(W)ACID)

FILE 'BIOSIS'  
      4699 DICARBOXYLIC  
      1254290 ACID  
L5      3102 DICARBOXYLIC ACID  
                 (DICARBOXYLIC(W) ACID)

FILE 'EMBASE'  
 5206 "DICARBOXYLIC"  
 1396178 "ACID"  
L6 4367 DICARBOXYLIC ACID  
 ("DICARBOXYLIC" (W) "ACID")

FILE 'HCAPLUS'  
      62654 DICARBOXYLIC  
      4167777 ACID  
L7      37669 DICARBOXYLIC ACID  
                 (DICARBOXYLIC(W) ACID)

FILE 'NTIS'  
284 DICARBOXYLIC  
43990 ACID  
L8 153 DICARBOXYLIC ACID  
(DICARBOXYLIC(W) ACID)

FILE 'ESBIOBASE'  
    1623 DICARBOXYLIC  
    345424 ACID  
L9        1146 DICARBOXYLIC ACID  
            (DICARBOXYLIC(W)ACID)

FILE 'BIOTECHNO'  
    930 DICARBOXYLIC  
    349810 ACID  
L10      751 DICARBOXYLIC ACID  
            (DICARBOXYLIC(W)ACID)

FILE 'WPIDS'  
    38823 DICARBOXYLIC  
    953052 ACID  
L11     31422 DICARBOXYLIC ACID  
            (DICARBOXYLIC(W)ACID)

TOTAL FOR ALL FILES  
L12     87183 DICARBOXYLIC ACID

=> s l12(8a)gene/q  
FILE 'MEDLINE'  
L13      20 L1 (8A)GENE/Q

FILE 'SCISEARCH'  
L14      16 L2 (8A)GENE/Q

FILE 'LIFESCI'  
L15      16 L3 (8A)GENE/Q

FILE 'BIOTECHDS'  
L16      31 L4 (8A)GENE/Q

FILE 'BIOSIS'  
L17      24 L5 (8A)GENE/Q

FILE 'EMBASE'  
L18      14 L6 (8A)GENE/Q

FILE 'HCAPLUS'  
L19      85 L7 (8A)GENE/Q

FILE 'NTIS'  
L20      0 L8 (8A)GENE/Q

FILE 'ESBIOBASE'  
L21      11 L9 (8A)GENE/Q

FILE 'BIOTECHNO'  
L22      11 L10 (8A)GENE/Q

FILE 'WPIDS'  
L23      33 L11 (8A)GENE/Q

TOTAL FOR ALL FILES  
L24     261 L12 (8A) GENE/Q

=> s l12(8a)microb?  
FILE 'MEDLINE'  
      537420 MICROB?  
L25     3 L1 (8A)MICROB?

FILE 'SCISEARCH'  
      141930 MICROB?

L26            2 L2 (8A)MICROB?

FILE 'LIFESCI'  
      56037 MICROB?  
L27            4 L3 (8A)MICROB?

FILE 'BIOTECHDS'  
      21206 MICROB?  
L28            9 L4 (8A)MICROB?

FILE 'BIOSIS'  
      463617 MICROB?  
L29            8 L5 (8A)MICROB?

FILE 'EMBASE'  
      100700 MICROB?  
L30            2 L6 (8A)MICROB?

FILE 'HCAPLUS'  
      429897 MICROB?  
L31            58 L7 (8A)MICROB?

FILE 'NTIS'  
      12841 MICROB?  
L32            1 L8 (8A)MICROB?

FILE 'ESBIOBASE'  
      262561 MICROB?  
L33            0 L9 (8A)MICROB?

FILE 'BIOTECHNO'  
      38419 MICROB?  
L34            2 L10(8A)MICROB?

FILE 'WPIDS'  
      50024 MICROB?  
L35            27 L11(8A)MICROB?

TOTAL FOR ALL FILES  
L36            116 L12(8A) MICROB?

=> s (l24 or l36) not 2003-2006/py

FILE 'MEDLINE'  
      2108991 2003-2006/PY  
                (20030000-20069999/PY)  
L37            18 (L13 OR L25) NOT 2003-2006/PY

FILE 'SCISEARCH'  
      3861676 2003-2006/PY  
                (20030000-20069999/PY)  
L38            13 (L14 OR L26) NOT 2003-2006/PY

FILE 'LIFESCI'  
      351389 2003-2006/PY  
L39            13 (L15 OR L27) NOT 2003-2006/PY

FILE 'BIOTECHDS'  
      90994 2003-2006/PY  
L40            22 (L16 OR L28) NOT 2003-2006/PY

FILE 'BIOSIS'  
      1749059 2003-2006/PY  
L41            26 (L17 OR L29) NOT 2003-2006/PY

FILE 'EMBASE'

L42        1809766 2003-2006/PY  
L42              13 (L18 OR L30) NOT 2003-2006/PY

FILE 'HCAPLUS'  
L43        4008365 2003-2006/PY  
L43              95 (L19 OR L31) NOT 2003-2006/PY

FILE 'NTIS'  
L44        48776 2003-2006/PY  
L44              1 (L20 OR L32) NOT 2003-2006/PY

FILE 'ESBIOBASE'  
L45        1064975 2003-2006/PY  
L45              5 (L21 OR L33) NOT 2003-2006/PY

FILE 'BIOTECHNO'  
L46        122467 2003-2006/PY  
L46              11 (L22 OR L34) NOT 2003-2006/PY

FILE 'WPIDS'  
L47        3640505 2003-2006/PY  
L47              36 (L23 OR L35) NOT 2003-2006/PY

TOTAL FOR ALL FILES  
L48        253 (L24 OR L36) NOT 2003-2006/PY

=> dup rem 148  
PROCESSING COMPLETED FOR L48  
L49        151 DUP REM L48 (102 DUPLICATES REMOVED)

=> d tot

L49        ANSWER 1 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI        Novel polynucleotide encoding CYTb5 protein, useful for producing the  
protein and for increasing the production of dicarboxylic acid;  
          recombinant enzyme gene production, vector expression in host cell,  
          and polymerase chain reaction useful for the production of  
          dicarboxylic acid

AU        CRAFT D L; MADDURI K M; LOPER J C  
AN        2002-12595 BIOTECHDS  
PI        WO 2002008413 31 Jan 2002

L49        ANSWER 2 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI        Preparing dodecyl-1,12-bicarboxylic acid from n-tetradecane comprises  
microbial synchronous fermentation;  
          C-acid preparation by yeast synchronous fermentation

AU        CHEN Y; HAO X  
AN        2003-25933 BIOTECHDS  
PI        CN 1369564 18 Sep 2002

L49        ANSWER 3 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI        In vivo temporal sequence of rat striatal glutamate, aspartate and  
dopamine efflux during apomorphine, nomifensine, NMDA and PDC in situ  
administration  
SO        Neuropharmacology (2002), 43(5), 825-835  
CODEN: NEPHBW; ISSN: 0028-3908  
AU        Bert, L.; Parrot, S.; Robert, F.; Desvignes, C.; Denoroy, L.;  
Suaud-Chagny, M.-F.; Renaud, B.  
AN        2002:785924 HCAPLUS  
DN        138:297517

L49        ANSWER 4 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
TI        Identification and characterization of the genes involved in the  
degradation of the dicarboxylic acid, pimelate, in

SO Rhodopseudomonas palustris.  
 SO Abstracts of the General Meeting of the American Society for Microbiology, (2002) Vol. 102, pp. 384. print.  
 TI Meeting Info.: 102nd General Meeting of the American Society for Microbiology. Salt Lake City, UT, USA. May 19-23, 2002. American Society for Microbiology.  
 AN ISSN: 1060-2011.  
 AU Harrison, F. H. [Reprint author]; Harwood, C. S. [Reprint author]  
 AN 2002:616953 BIOSIS

L49 ANSWER 5 OF 151 MEDLINE on STN DUPLICATE 1  
 TI A study of the effects on the symbiotic nitrogen fixation of *Sinorhizobium fredii* with the introduction of *dctABD* and *nifA* genes.  
 SO Yi chuan xue bao = Acta genetica Sinica, (2002 Feb) Vol. 29, No. 2, pp. 181-8.  
 Journal code: 7900784. ISSN: 0379-4172.  
 AU Li You-Guo; Zhou Jun-Chu  
 AN 2002170464 MEDLINE

L49 ANSWER 6 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI New human dihydropyridine dicarboxylic acid dehydrogenase-18 and encoded polynucleotide, applicable in diagnosis and treatment of malignant tumor, hemopathy, human immunodeficiency virus infection, immunological diseases and inflammations;  
 vector expression in host cell for disease therapy, diagnosis and gene therapy  
 AU Mao Y; Xie Y  
 AN 2002-01743 BIOTECHDS  
 PI WO 2001070994 27 Sep 2001

L49 ANSWER 7 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Novel isolated nucleic acid encoding cytochrome P450 and NADPH reductase enzymes of omega-hydroxylase complex of *Candida tropicalis*, useful for increasing production of dicarboxylic acids;  
 cytochrome-P450 and NADHP-reductase CYP52A2A protein production by vector expression in host cell for dicarboxylic acid production  
 AU WILSON C R; CRAFT D L; EIRICH L D; ESHOO M; MADDURI K M; CORNETT C A; BRENNER A A; TANG M; LOPER J C; GLEESON M  
 AN 2002-06912 BIOTECHDS  
 PI US 6331420 18 Dec 2001

L49 ANSWER 8 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Method for detecting mismatched base pairs such as guanine-guanine in DNA and RNA;  
 mimetic base preparation and immobilization for nucleic acid mutation detection  
 AU Nakatani K; Saito I; Sando S  
 AN 2001-13391 BIOTECHDS  
 PI WO 2001038571 31 May 2001

L49 ANSWER 9 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Method using a mono- or diester of a  $\alpha,\omega$ -dicarboxylic acid for treatment of dermatological disorders  
 SO U.S., 12 pp., Cont.-in-part of Appl. No. PCT/IB97/01428.  
 CODEN: USXXAM  
 IN Tamarkin, Dov  
 AN 2001:73543 HCPLUS  
 DN 134:125967

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6180669	B1	20010130	US 1999-286236	19990405
WO 9820834	A2	19980522	WO 1997-IB1428	19971112
WO 9820834	A3	19981126		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
 DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,

LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,  
RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN,  
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,  
GN, ML, MR, NE, SN, TD, TG

- L49 ANSWER 10 OF 151 MEDLINE on STN DUPLICATE 4  
TI Cloning and genetic characterization of dca genes required for  
beta-oxidation of straight-chain dicarboxylic acids in *Acinetobacter* sp.  
strain ADP1.  
SO Applied and environmental microbiology, (2001 Oct) Vol. 67, No. 10, pp.  
4817-27.  
Journal code: 7605801. ISSN: 0099-2240.  
AU Parke D; Garcia M A; Ornston L N  
AN 2001524029 MEDLINE
- L49 ANSWER 11 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Repression of fatty-acyl-coA-oxidase-encoding gene expression is not  
necessarily a determinant of high-level production of dicarboxylic acids  
in industrial dicarboxylic-acid-producing *Candida tropicalis*;  
dicarboxylic acid production  
SO Appl.Microbiol.Biotechnol.; (2001) 56, 3-4, 478-85  
CODEN: EJABDD ISSN: 0175-7598  
AU Hara A; Ueda M; Matsui T; Arie M; Saeki H; Matsuda H; Furuhashi K; Kanai  
T; \*Tanaka A  
AN 2001-11264 BIOTECHDS
- L49 ANSWER 12 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI An improved method for preparing dimethyl cyclohepta-1,3,5-triene-3,4-  
dicarboxylate  
SO Synthetic Communications (2001), 31(3), 387-393  
CODEN: SYNCV; ISSN: 0039-7911  
AU Oda, Mitsunori; Hayashi, Shuichi; Zuo, Shengli; Miyatake, Ryuta; Kuroda,  
Shigeyasu; Morita, Noboru; Asao, Toyonobu  
AN 2001:455235 HCAPLUS  
DN 135:210764
- L49 ANSWER 13 OF 151 MEDLINE on STN DUPLICATE 5  
TI Novel and convenient methods for *Candida tropicalis* gene disruption using  
a mutated hygromycin B resistance gene.  
SO Archives of microbiology, (2001 Nov) Vol. 176, No. 5, pp. 364-9.  
Journal code: 0410427. ISSN: 0302-8933.  
AU Hara A; Arie M; Kanai T; Matsui T; Matsuda H; Furuhashi K; Ueda M; Tanaka  
A  
AN 2001648937 MEDLINE
- L49 ANSWER 14 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
TI Cloning and mutational analysis of a gene, dctA, encoding a  
dicarboxylic acid transport protein from a biological  
control bacterium *Pseudomonas chlororaphis* O6.  
SO Phytopathology, (June, 2001) Vol. 91, No. 6 Supplement, pp. S48-S49.  
print.  
Meeting Info.: Joint Meeting of the American Phytopathological Society,  
the Mycological Society of America, and the Society of Nematologists. Salt  
Lake City, Utah, USA. August 25-29, 2001. American Phytopathological  
Society; Mycological Society of America; Society of Nematologists.  
CODEN: PHYTAJ. ISSN: 0031-949X.  
AU Kim, Y. C. [Reprint author]; Anderson, A. J.  
AN 2001:404190 BIOSIS
- L49 ANSWER 15 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Detection of turning time from microbe growth to fermentation in  
production of long-chain dicarboxylic acid

- SO Shiyou Lianzhi Yu Huagong (2001), 32(8), 19-21  
 CODEN: SLYHEE; ISSN: 1005-2399  
 AU Dong, Mingyou; Yan, Yimin; Yang, Dong; Yuan, Chunfu  
 AN 2001:719322 HCAPLUS  
 DN 136:215496
- L49 ANSWER 16 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Spontaneous mutations affecting transcriptional regulation by protocatechuate in *Acinetobacter*  
 SO FEMS Microbiology Letters (2001), 201(1), 15-19  
 CODEN: FMLED7; ISSN: 0378-1097  
 AU D'Argenio, D. A.; Segura, A.; Bunz, P. V.; Ornston, L. N.  
 AN 2001:483537 HCAPLUS  
 DN 136:178731
- L49 ANSWER 17 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Hygromycin-tolerant gene with CTG codon modified into leucine codon, applicable as selection marker in yeast of *Candida* genus providing transformants for efficient production of e.g. dicarboxylic acid; plasmid pUCARS-HGM-mediated gene transfer and expression in *Candida tropicalis*  
 AU Tanaka A; Ueda M; Hara A; Misawa A  
 AN 2001-04352 BIOTECHDS  
 PI WO 2000075307 14 Dec 2000
- L49 ANSWER 18 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI New alpha-hydroxy-gamma-carboxymuconic-acid-eta-semialdehyde-dehydrogenase for industrial production of 2-pyrone-4,6-dicarboxylic acid;  
 Sphingomonas sp. recombinant enzyme production via vector plasmid pCHMS01-mediated gene transfer and expression in *Escherichia coli*  
 AU Masai E; Fukuda M; Katayama Y; Nishikawa S; Hotta Y  
 AN 2000-05173 BIOTECHDS  
 PI WO 2000004134 27 Jan 2000
- L49 ANSWER 19 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process for producing alpha, omega-long chain dicarboxylic acid by using microorganism fermentation  
 SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 10 pp.  
 CODEN: CNXXEV  
 IN Liu, Shuchen; Li, Shulan; Fang, Xiangchen; Dong, Mingyou  
 AN 2001:36231 HCAPLUS  
 DN 134:70417
- | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| PI CN 1257126 | A    | 20000621 | CN 1998-121084  | 19981216 |
|               | B    | 20010627 |                 |          |
- L49 ANSWER 20 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI New DNA encoding glutamate-malate transporter, useful for producing transgenic plants with altered nitrogen metabolism, particularly increased protein content.  
 PI WO 2000031281 A2 20000602 (200035)\* GE 40 C12N015-82  
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 W: AU CA IL JP RU US  
 AU 2000015554 A 20000613 (200043) C12N015-82  
 DE 19853778 C1 20000921 (200047) C12N015-29  
 EP 1135510 A2 20010926 (200157) GE C12N015-82  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
 IN DRESSEN, U; FLUEGGE, U; WEBER, A; WESTHOFF, P
- L49 ANSWER 21 OF 151 MEDLINE on STN DUPLICATE 6  
 TI Improvement of nitrogen fixation efficiency and plasmid stability in *Bradyrhizobium japonicum* by the introduction of *dctABD* and *parCBA/DE* genes.

SO Yi chuan xue bao = Acta genetica Sinica, (2000) Vol. 27, No. 8, pp.  
742-50.  
Journal code: 7900784. ISSN: 0379-4172.  
AU Li Y G; Li J; Liu M Q; Zhou J C  
AN 2000505618 MEDLINE

L49 ANSWER 22 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Fermentation of decane 1,10-dicarboxylic acid (DC12)  
SO Shengwu Gongcheng Xuebao (2000), 16(2), 198-202  
CODEN: SGXUED; ISSN: 1000-3061  
AU Ren, Gang; Chen, Yuang-Tong  
AN 2000:304920 HCAPLUS  
DN 133:221652

L49 ANSWER 23 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Introduction of dctABD genes into *Sinorhizobium fredii* and its effect on symbiotic nitrogen fixation efficiency  
SO Gaojishu Tongxun (2000), 10(5), 1-7  
CODEN: GTONE8; ISSN: 1002-0470  
AU Li, Youguo; Li, Jie; Liu, Moqing; Zhou, Minjiang; Zhou, Junchu  
AN 2000:430399 HCAPLUS  
DN 134:39597

L49 ANSWER 24 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI The gene for mouse metabotropic glutamate receptor mGluR5 associated with sensitivity to CNS depressants and its use in identification of new depressants  
SO PCT Int. Appl., 129 pp.  
CODEN: PIXXD2  
IN Johnson, Thomas E.; Sikela, James M.; Simpson, Victoria J.; Rikke, Brad A.  
AN 1999:495390 HCAPLUS  
DN 131:125921

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9938975	A2	19990805	WO 1999-US2033	19990129
WO 9938975	A3	19990923		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9924869	A1	19990816	AU 1999-24869	19990129

L49 ANSWER 25 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Cloning and cDNA sequence of human excitatory amino acid transporter  
SO U.S., 40 pp., Cont.-in-part of U.S. 5,658,782.  
CODEN: USXXAM  
IN Amara, Susan G.; Arriza, Jeffrey L.; Eliasof, Scott; Kavanaugh, Michael P.  
AN 1999:193832 HCAPLUS  
DN 130:219172

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5882926	A	19990316	US 1997-948569	19971010
US 5658782	A	19970819	US 1993-140729	19931020
US 5989825	A	19991123	US 1998-188469	19981109
US 6284505	B1	20010904	US 1999-397238	19990916

L49 ANSWER 26 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Timber preservation agent preventing decay of timber from microbes  
- contains metal salt of unsaturated dicarboxylic acid  
and ammonia or water soluble amine.

PI JP 11189504 A 19990713 (200005)\* 4 A01N037-06

L49 ANSWER 27 OF 151 MEDLINE on STN DUPLICATE 7  
TI Studies on microbial production of undecane 1, 11-dicarboxylic acid from N-tridecane.  
SO Wei sheng wu xue bao = Acta microbiologica Sinica, (1999 Jun) Vol. 39, No. 3, pp. 279-81.  
Journal code: 21610860R. ISSN: 0001-6209.  
AU Chen Y; Pang Y; Hao X  
AN 2003046667 MEDLINE

L49 ANSWER 28 OF 151 MEDLINE on STN DUPLICATE 8  
TI Genetic and biochemical characterization of a 2-pyrone-4, 6-dicarboxylic acid hydrolase involved in the protocatechuate 4, 5-cleavage pathway of Sphingomonas paucimobilis SYK-6.  
SO Journal of bacteriology, (1999 Jan) Vol. 181, No. 1, pp. 55-62.  
Journal code: 2985120R. ISSN: 0021-9193.  
AU Masai E; Shinohara S; Hara H; Nishikawa S; Katayama Y; Fukuda M  
AN 1999084939 MEDLINE

L49 ANSWER 29 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
TI Increasing the production of long-chain dicarboxylic acid by metabolic network analysis  
SO Nanjing Huagong Daxue Xuebao (1999), 21(3), 6-9  
CODEN: NHDXFB  
AU Lin, Rongsheng; Zhu, Tao; Cao, Zhu'an  
AN 1999:485681 HCPLUS  
DN 131:285476

L49 ANSWER 30 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI New renal organic anion transporter protein; vector-mediated gene transfer and expression in host cell, DNA probe and antibody, used for nephrotoxicity drug screening  
AU Endou H; Kanai Y; Hosoyamada M  
AN 1999-02096 BIOTECHDS  
PI WO 9853064 26 Nov 1998

L49 ANSWER 31 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI New xantioxidase inhibitors - based on microbiological 1,6-diamino-dibenzofuran-2,7-dicarboxylic acid, its salts and esters.  
PI HU 9700652 A1 19981028 (199850)\* 1 C07D307-91  
IN AMBRUS, G; HORVATH, G; JEKKEL, A; KONYA, A; MAKK, N; SALAT, J; SZABO, I M; SZELECZKY, Z; TOTH, G

L49 ANSWER 32 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of fragrances - production of dicarboxylic acids by fermentation and their use for synthesis of macrocyclic musk compounds  
SO Kagaku Kogaku (1998), 62(10), 565-567  
CODEN: KKGKA4; ISSN: 0375-9253  
AU Furuhashi, Keizo  
AN 1998:647502 HCPLUS  
DN 129:301700

L49 ANSWER 33 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of monoesters of N-protected  $\alpha$ -aminodicarboxylic acids via the microbial protease-catalyzed regioselective hydrolysis of their diesters  
SO Biotechnology Techniques (1998), 12(6), 431-434  
CODEN: BTECE6; ISSN: 0951-208X  
AU Miyazawa, Toshifumi; Ogura, Motoji; Nakajo, Shin'ichi; Yamada, Takashi  
AN 1998:537332 HCPLUS  
DN 129:245446

L49 ANSWER 34 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN

- TI HPLC analysis of quinolinic acid, a NAD biosynthesis intermediate, after fluorescence derivatization in an aqueous matrix
- SO Microbios (1998), 94(379), 167-181  
CODEN: MCBIA7; ISSN: 0026-2633
- AU Xia, Chunsheng; Dang, Yuhong; Brown, Olen R.
- AN 1998:688093 HCAPLUS
- DN 130:49338
- L49 ANSWER 35 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Method for producing undecane-1,11-bicarboxylic acid by microorganism fermenting synchronously;  
involving *Candida tropicalis* culture medium optimization
- AU CHEN Y; PANG Y; HAO X
- AN 2003-23207 BIOTECHDS
- PI CN 1162644 22 Oct 1997
- L49 ANSWER 36 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Ceramic filter in oil-water two phase microbial reaction
- SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF
- IN Kobayashi, Toshihito; Kamimura, Naohisa
- AN 1997:172382 HCAPLUS
- DN 126:170522
- | PATENT NO.     | KIND  | DATE     | APPLICATION NO. | DATE     |
|----------------|-------|----------|-----------------|----------|
| -----          | ----- | -----    | -----           | -----    |
| PI JP 09009981 | A2    | 19970114 | JP 1995-183265  | 19950628 |
- L49 ANSWER 37 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Microbial transformation of dibenzothiophene and 4,6-dimethyldibenzothiophene
- SO Microbiology (Moscow) (Translation of Mikrobiologiya) (1997), 66(4), 402-407  
CODEN: MIBLAO; ISSN: 0026-2617
- AU Finkel'stein, Z. I.; Baskunov, B. P.; Vavilova, L. N.; Golovleva, L. A.
- AN 1997:544437 HCAPLUS
- DN 127:259879
- L49 ANSWER 38 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Production of long chain alpha, omega-dicarboxylic acid by synchronous fermentation of microbe;  
*Candida tropicalis* co-culture
- AU Chen Y; Hao X
- AN 1998-02906 BIOTECHDS
- PI CN 1130685 11 Sep 1996
- L49 ANSWER 39 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Molecular cloning and functional expression of a sodium-dicarboxylate cotransporter from human kidney
- SO American Journal of Physiology (1996), 270(4, Pt. 2), F642-F648  
CODEN: AJPHAP; ISSN: 0002-9513
- AU Pajor, Ana M.
- AN 1996:266764 HCAPLUS
- DN 124:336127
- L49 ANSWER 40 OF 151 MEDLINE on STN DUPLICATE 10  
TI Intraseptal administration of (1S,3R)-1-aminocyclopentane-1,3-dicarboxylic acid induces immediate early gene expression in lateral septal neurons.
- SO Brain research, (1996 Feb 19) Vol. 709, No. 2, pp. 205-14.  
Journal code: 0045503. ISSN: 0006-8993.
- AU Kaatz K W; Albin R L
- AN 96430632 MEDLINE
- L49 ANSWER 41 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Modular structure of the *Rhizobium meliloti* DctB protein

SO FEMS Microbiology Letters (1996), 139(1), 19-25  
CODEN: FMLED7; ISSN: 0378-1097  
AU Giblin, Linda; Archdeacon, John; O'Gara, Fergal  
AN 1996:347788 HCAPLUS  
DN 125:29062

L49 ANSWER 42 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Increasing occupancy of plant nodules;  
Rhizobium meliloti and Bradyrhizobium japonicum strain improvement,  
for application in improved nitrogen-fixation  
AU Ronson C W; Kwiatkowski R W  
AN 1995-10913 BIOTECHDS  
PI US 5427785 27 Jun 1995

L49 ANSWER 43 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI N-Acylpiperidine tachykinin antagonists

SO PCT Int. Appl., 91 pp.  
CODEN: PIXXD2

IN MacCoss, Malcolm; Mills, Sander G.

AN 1995:994334 HCAPLUS

DN 124:55803

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9522525	A1	19950824	WO 1995-US1800	19950213
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5610165	A	19970311	US 1994-198025	19940217
AU 9518429	A1	19950904	AU 1995-18429	19950213

L49 ANSWER 44 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Optically active di carboxylic acid production - comprises reacting unsatd. di carboxylic acid with Arthrobacter genus microbes..

PI JP 07031486 A 19950203 (199515)\* 4 C12P007-46

L49 ANSWER 45 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Protein crosslinking studies suggest that Rhizobium meliloti C4-dicarboxylic acid transport protein D, a σ54-dependent transcriptional activator, interacts with σ54 and the β subunit of RNA polymerase

SO Proceedings of the National Academy of Sciences of the United States of America (1995), 92(21), 9702-6  
CODEN: PNASA6; ISSN: 0027-8424

AU Lee, Joon H.; Hoover, Timothy R.

AN 1995:874523 HCAPLUS

DN 123:278002

L49 ANSWER 46 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 12

TI PHOTOREACTIVE CHOLESTERIC POLYESTERS DERIVED FROM 4-CARBOXYCINNAMIC ACID AND NOVEL CHIRAL SPACERS

SO MACROMOLECULES, (17 JUL 1995) Vol. 28, No. 15, pp. 5306-5311.  
ISSN: 0024-9297.

AU STUMPE J (Reprint); ZIEGLER A; BERGHAHN M; KRICHELDORF H R

AN 1995:491117 SCISEARCH

L49 ANSWER 47 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 13

TI Studies on microbial production of tridecane 1,13-dicarboxylic acid (DC sub(15)) from n-pentadecane (nc sub(15))

SO ACTA MICROBIOL. SIN., (1995) vol. 35, no. 6, pp. 433-437.  
ISSN: 0001-6209.

AU Yuantong, Chen; Xiuzhen, Hao; Yuechuan, Pang  
AN 96:118920 LIFESCI

L49 ANSWER 48 OF 151 MEDLINE on STN DUPLICATE 14  
TI Rhizobium leguminosarum nodulation gene (nod) expression is lowered by an allele-specific mutation in the dicarboxylate transport gene dctB.  
SO Microbiology (Reading, England), (1995 Jan) Vol. 141 ( Pt 1), pp. 103-11.  
Journal code: 9430468. ISSN: 1350-0872.  
AU Mavridou A; Barny M A; Poole P; Plaskitt K; Davies A E; Johnston A W;  
Downie J A  
AN 95202068 MEDLINE

L49 ANSWER 49 OF 151 MEDLINE on STN DUPLICATE 15  
TI Signal transduction in the Rhizobium meliloti dicarboxylic acid transport system.  
SO FEMS microbiology letters, (1995 Feb 1) Vol. 126, No. 1, pp. 25-30.  
Journal code: 7705721. ISSN: 0378-1097.  
AU Giblin L; Boesten B; Turk S; Hooykaas P; O'Gara F  
AN 95203660 MEDLINE

L49 ANSWER 50 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation and properties of thermoplastic elastomeric polyamide-polyester-polyoxyalkylenes  
SO Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW  
IN Kirikihira, Isamu; Yamakawa, Hiroshi; Kubo, Yuji  
AN 1995:520290 HCAPLUS  
DN 122:266362  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI EP 608976 A1 19940803 EP 1994-300121 19940107  
EP 608976 B1 19971112  
R: DE, FR, GB, IT, NL  
JP 06207007 A2 19940726 JP 1993-2055 19930108  
JP 3324170 B2 20020917  
JP 06207005 A2 19940726 JP 1993-2056 19930108  
JP 3324171 B2 20020917  
JP 06279583 A2 19941004 JP 1993-66716 19930325  
JP 3257127 B2 20020218  
US 5811495 A 19980922 US 1996-695517 19960812

L49 ANSWER 51 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Method for preparing long chain  $\alpha$ ,  $\omega$ - dicarboxylic acid via microbiological fermentation in normal alkane  
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.  
CODEN: CNXXEV

IN Chen, Yantong; Liu, Ting; Pang, Yuechuan  
AN 1995:380442 HCAPLUS  
DN 122:131185  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI CN 1092108 A 19940914 CN 1994-100594 19940128  
CN 1030146 B 19951025  
WO 9521145 A2 19950810 WO 1995-IB93 19950127  
WO 9521145 A3 19950824  
W: AM, AU, BB, BG, BR, BY, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ,  
LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ,  
TT, UA, US, UZ, VN  
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,  
MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,  
TD, TG  
AU 9515446 A1 19950821 AU 1995-15446 19950127

L49 ANSWER 52 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Fertiliser for improving the growth of rice seedlings.

PI CN 1081433 A 19940202 (199521)\* C05G003-00  
 IN SONG, S; WANG, Y; WU, Y

L49 ANSWER 53 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Alfalfa yield response to inoculation with recombinant strains of Rhizobium meliloti with an extra copy of *dotABD* and/or modified *nifA* expression.  
 SO Applied and Environmental Microbiology, (1994) Vol. 60, No. 10, pp. 3815-3832.  
 CODEN: AEMIDF. ISSN: 0099-2240.  
 AU Bosworth, Andrew H.; Williams, Mark K.; Albrecht, Kenneth A.; Kwiatkowski, Robert; Beynon, Jim; Hankinson, Thomas R.; Ronson, Clive W.; Cannon, Frank; Wacek, Thomas J.; Triplett, Eric W. [Reprint author]  
 AN 1994:526513 BIOSIS

L49 ANSWER 54 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Analysis of the Escherichia coli genome. V. DNA sequence of the region from 76.0 to 81.5 minutes  
 SO Nucleic Acids Research (1994), 22(13), 2576-86  
 CODEN: NARHAD; ISSN: 0305-1048  
 AU Sofia, Heidi J.; Burland, Valerie; Daniels, Donna L.; Plunkett, Guy, III; Blattner, Frederick R.  
 AN 1994:694082 HCAPLUS  
 DN 121:294082

L49 ANSWER 55 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 16  
 TI Studies on microbial production of tetradecane 1,14-dicarboxylic acid (DC sub(16)) from hexadecane (nC sub(16))  
 SO ACTA MICROBIOL. SIN., (1994) vol. 34, no. 4, pp. 301-304.  
 ISSN: 0001-6209.  
 AU Yuantong, Chen; Xiuzhen, Hao  
 AN 96:21360 LIFESCI

L49 ANSWER 56 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Liquid-crystalline polyester-amides with good toughness and manufacture thereof  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 IN Shirahama, Rie; Kidai, Osamu; Sakata, Yasuyuki  
 AN 1993:604140 HCAPLUS  
 DN 119:204140

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 05043685	A2	19930223	JP 1991-208315	19910820
JP 3092226	B2	20000925		

L49 ANSWER 57 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of 6-hydroxy pyridines or pyrazines by microbial hydroxylation  
 SO Eur. Pat. Appl., 9 pp.  
 CODEN: EPXXDW  
 IN Yasuda, Mari; Ohkishi, Haruyuki; Sato, Katsutoshi; Morimoto, Yuuki; Nagasawa, Toru  
 AN 1993:648182 HCAPLUS  
 DN 119:248182

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 558022	A2	19930901	EP 1993-103038	19930226
EP 558022	A3	19940803		
EP 558022	B1	19960612		
R: CH, DE, FR, GB, IT, LI				
JP 05304972	A2	19931119	JP 1992-77461	19920331
JP 3275353	B2	20020415		
CN 1079991	A	19931229	CN 1993-103482	19930226

CN 1051803  
US 5436145

B 20000426  
A 19950725 US 1994-246570

19940520

- L49 ANSWER 58 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Negative regulation of σ54-dependent dctA expression by the transcriptional activator DctD  
SO Journal of Bacteriology (1993), 175(9), 2674-81  
CODEN: JOBAAY; ISSN: 0021-9193  
AU Labes, Monika; Finan, Turlough M.  
AN 1993:422189 HCAPLUS  
DN 119:22189
- L49 ANSWER 59 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Symbiotic nitrogen fixation by a nifA deletion mutant of Rhizobium meliloti: The role of an unusual ntrC allele  
SO Journal of Bacteriology (1993), 175(9), 2662-73  
CODEN: JOBAAY; ISSN: 0021-9193  
AU Labes, Monkia; Rastogi, Vipin; Watson, Robert; Finan, Turlough M.  
AN 1993:422188 HCAPLUS  
DN 119:22188
- L49 ANSWER 60 OF 151 MEDLINE on STN DUPLICATE 17  
TI Relationships between C4 dicarboxylic acid transport and chemotaxis in Rhizobium meliloti.  
SO Journal of bacteriology, (1993 Apr) Vol. 175, No. 8, pp. 2284-91.  
Journal code: 2985120R. ISSN: 0021-9193.  
AU Robinson J B; Bauer W D  
AN 93224450 MEDLINE
- L49 ANSWER 61 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Characterization of environmental regulators of Bordetella pertussis  
SO Infection and Immunity (1993), 61(3), 807-15  
CODEN: INFIBR; ISSN: 0019-9567  
AU Melton, Angela R.; Weiss, Alison Ann  
AN 1993:229897 HCAPLUS  
DN 118:229897
- L49 ANSWER 62 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Construction and properties of Escherichia coli mutants defective in two genes encoding homologous membrane proteins with putative roles in anaerobic C4-dicarboxylic acid transport  
SO Biochemical Society Transactions (1993), 21(4), 342S  
CODEN: BCSTB5; ISSN: 0300-5127  
AU Six, Stephan; Andrews, Simon C.; Roberts, Ruth E.; Unden, Gottfried; Guest, John R.  
AN 1993:618918 HCAPLUS  
DN 119:218918
- L49 ANSWER 63 OF 151 MEDLINE on STN DUPLICATE 18  
TI The Escherichia coli cAMP receptor protein (CRP) represses the Rhizobium meliloti dctA promoter in a cAMP-dependent fashion.  
SO Molecular microbiology, (1993 Apr) Vol. 8, No. 2, pp. 253-9.  
Journal code: 8712028. ISSN: 0950-382X.  
AU Wang Y P; Giblin L; Boesten B; O'Gara F  
AN 93302501 MEDLINE
- L49 ANSWER 64 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Manufacture of benzenedicarboxylic acid monoester (derivatives) with microorganisms or their preparations from diesters  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
IN Yanai, Takaaki; Tsunekawa, Hiroshi; Okamura, Kazuhiko; Okamoto, Rokuro  
AN 1992:590295 HCAPLUS  
DN 117:190295

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

PI	JP 04158789	A2	19920601	JP 1990-285619	19901023
	JP 2946472	B2	19990906		
L49	ANSWER 65 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN				
TI	Prepn of 2-hydroxy benzene-1,4-di carboxylic acid - by subjecting new 1,2-di hydroxy cyclo hexa-3,5-diene-1,4-di carboxylic acid to acid or base catalysed dehydration.				
PI	US 5124479	A	19920623 (199228)*	3	C07C065-01
IN	HAGEDORN, S; RUPPEN, M E				
L49	ANSWER 66 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN				
TI	KS-505A A HIGHLY POTENT AND SELECTIVE INHIBITOR OF BRAIN CALCIUM CALMODULIN-DEPENDENT CYCLIC NUCLEOTIDE PHOSPHODIESTERASE.				
SO	FASEB Journal, (1992) Vol. 6, No. 5, pp. A1846.				
	Meeting Info.: 1992 MEETING OF THE FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY (FASEB), PART II, ANAHEIM, CALIFORNIA, USA, APRIL 5-9, 1992. FASEB (FED AM SOC EXP BIOL) J.				
	CODEN: FAJOEC. ISSN: 0892-6638.				
AU	KASE H [Reprint author]; YOSHIZAKI R; ICHIMURA M; OSAWA K; NAKANISHI S; MATSUDA Y				
AN	1992:314284 BIOSIS				
L49	ANSWER 67 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN				
TI	Microbial production of pentadecane 1,15-dicarboxylic acid (DC17) from heptadecane (nC17)				
SO	Weishengwu Xuebao (1992), 31(6), 454-9				
	CODEN: WSHPA8; ISSN: 0001-6209				
AU	Chen, Yuantong; Pang, Yuechuan; Hao, Xiuzhen; Lu, Aiyan				
AN	1992:254035 HCPLUS				
DN	116:254035				
L49	ANSWER 68 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN				
TI	Method for increasing omega-hydroxylase activity; cytochrome-P450-ALK1, cytochrome-P450-ALK2 and/or cytochrome-P450-RED gene cloning in Candida tropicalis via gene disruption; gene dosage effect; alpha,omega-dicarboxylic acid production				
AN	1992-00388 BIOTECHDS				
PI	WO 9114781 3 Oct 1991				
L49	ANSWER 69 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN				
TI	DNA encoding genes which complement dicarboxylic acid transport; useful in bacterial hosts e.g. Rhizobium meliloti, Rhizobium leguminosarum and Brevibacterium japonicum for increasing nitrogen-fixation of legume; plasmid pRK290:4:46				
AN	1992-03853 BIOTECHDS				
PI	US 5077209 31 Dec 1991				
L49	ANSWER 70 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN				
TI	Fatty acid oxidation-deficient Candida tropicalis				
SO	PCT Int. Appl., 46 pp.				
	CODEN: PIXXD2				
IN	Picataggio, Stephen; Deanda, Kristine; Eirich, L. Dudley				
AN	1991:425930 HCPLUS				
DN	115:25930				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9106660	A1	19910516	WO 1990-US6427	
	W: AU, CA, FI, JP, KR, SU			19901106	
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5254466	A	19931019	US 1989-432091	
	ZA 9008653	A	19910828	ZA 1990-8653	
				19891106	
				19901029	

CA 2072977	AA 19910507	CA 1990-2072977	19901106
AU 9067414	A1 19910531	AU 1990-67414	19901106
EP 499622	A1 19920826	EP 1990-917626	19901106
EP 499622	B1 19940831		
R: DE, FR, GB			
JP 05501501	T2 19930325	JP 1991-500500	19901106
JP 3023984	B2 20000321		
JP 3023984	B2 20000321	JP 1990-500500	19901106

L49 ANSWER 71 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI New pseudomonas strain microbe - used to prepare 2,6-naphthalene di carboxylic acid from 2,6-di methyl-naphthalene.  
PI JP 03080091 A 19910404 (199120)\*

L49 ANSWER 72 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Purification, characterization and nucleotide sequence of the periplasmic C4-dicarboxylate-binding protein (DctP) from Rhodobacter capsulatus  
SO Molecular Microbiology (1991), 5(12), 3055-62  
CODEN: MOMIEE; ISSN: 0950-382X  
AU Shaw, J. G.; Hamblin, M. J.; Kelly, D. J.  
AN 1993:119099 HCAPLUS  
DN 118:119099

L49 ANSWER 73 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI CHEMOTAXIS OF BRADYRHIZOBIUM-JAPONICUM TO SOYBEAN EXUDATES.  
SO Applied and Environmental Microbiology, (1991) Vol. 57, No. 9, pp. 2635-2639.  
CODEN: AEMIDF. ISSN: 0099-2240.  
AU BARBOUR W M [Reprint author]; HATTERMANN D R; STACEY G  
AN 1991:508273 BIOSIS

L49 ANSWER 74 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 21  
TI STIMULATION OF NORMAL-ALKANE CONVERSION TO DICARBOXYLIC-ACID BY ORGANIC-SOLVENT-TREATED AND DETERGENT-TREATED MICROBES  
SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (MAR 1991) Vol. 34, No. 6, pp. 772-777.  
ISSN: 0175-7598.  
AU CHAN E C (Reprint); KUO J; LIN H P; MOU D G  
AN 1991:185321 SCISEARCH

L49 ANSWER 75 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 22  
TI Studies on microbial production of pentadecane 1,15-dicarboxylic acid (DC sub(17)) from heptadecane (nC sub(17))  
SO ACTA MICROBIOL. SIN., (1991) vol. 31, no. 6, pp. 454-459.  
ISSN: 0001-6209.  
AU Yuantong, Chen; Yuechuan, Pang; Xiuzhen, Hao; Aiyan, Lu  
AN 94:98985 LIFESCI

L49 ANSWER 76 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Microbial production of dicarboxylic acid;  
using Candida cloacae (conference abstract)  
SO INFORM; (1991) 2, 4, 368,370  
AU Casey J; Lindner N; Poels E  
AN 1991-07026 BIOTECHDS

L49 ANSWER 77 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Epoxy resin compositions for flexible sealing materials  
SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
IN Watanabe, Jiro; Yamaguchi, Kiyohiro; Kobayashi, Toshio  
AN 1991:658451 HCAPLUS

DN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02206675 JP 2790301	A2 B2	19900816 19980827	JP 1989-25311	19890203
L49	ANSWER 78 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Pyridine-2,3-dicarboxylic acid manufacture with Pseudomonas or recombinant Escherichia coli				
SO	Eur. Pat. Appl., 12 pp. CODEN: EPXXDW				
IN	Roehl, Randall A.; Matcham, George W.; Stirling, David I.				
AN	1991:469948 HCAPLUS				
DN	115:69948				
DN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 390102 EP 390102	A2 A3	19901003 19920226	EP 1990-105892	19900328
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US	5166060	A	19921124	US 1989-332339	19890331
CA	2012680	AA	19900930	CA 1990-2012680	19900321
AU	9052416	A1	19901004	AU 1990-52416	19900330
JP	03218358	A2	19910925	JP 1990-84747	19900330
L49	ANSWER 79 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN				
TI	Oligopeptide(s) having antiviral and antitumour activity - containing heterocyclic units and positively charged terminal gps..				
PI	US 4912199	A	19900327 (199018)*		
	CA 1308516	C	19921006 (199246) #	C07K007-06	
IN	KROWICKI, K; LOWN, J W				
L49	ANSWER 80 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid transport and regulation of nitrogen fixation in Rhizobium meliloti				
SO	Biochemical Society Transactions (1990), 18(2), 359-60 CODEN: BCSTB5; ISSN: 0300-5127				
AU	Noonan, Brian; Birkenhead, Kate; Wang, Yiping; Boesten, Bert; Dobson, Alan; O'Gara, Fergal				
AN	1990:195080 HCAPLUS				
DN	112:195080				
L49	ANSWER 81 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Microbial production of industrial chemicals: basic features of dicarboxylic acid production by yeasts				
SO	Forum Mikrobiologie (1990), 13(5), 274-81 CODEN: FOMID4; ISSN: 0170-8244				
AU	Schindler, J.; Meussdoerffer, F.; Giesel-Buehler, H.				
AN	1990:530607 HCAPLUS				
DN	113:130607				
L49	ANSWER 82 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid-glycol oligoesters as microbicides for foods and cosmetics				
SO	Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF				
IN	Takagi, Yoshiaki; Tokunaga, Hisatoku; Uejima, Takuo; Ono, Takeshi; Taoka, Ei; Watanabe, Akio				
AN	1989:613620 HCAPLUS				
DN	111:213620				
DN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01075420	A2	19890322	JP 1987-234139	19870918
L49	ANSWER 83 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Dicarboxylic acid alkyl or cholesteryl esters as				

SO microbicides for foods and cosmetics  
 Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF

IN Takagi, Yoshiaki; Tokunaga, Hisatoku; Uejima, Takuo; Ono, Takeshi; Taoka, Ei; Watanabe, Akio  
 AN 1989:613621 HCAPLUS  
 DN 111:213621

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01075404	A2	19890322	JP 1987-234138	19870918
JP 06080002	B4	19941012		

L49 ANSWER 84 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Dicarboxylic acid mono-2-(dodecyl(2-hydroxyethyl)amino) ethyl ester and its salts as corrosion inhibitors in aqueous systems  
 SO Ger. Offen., 12 pp.  
 CODEN: GWXXBX

IN Penninger, Josef; Wehle, Volker  
 AN 1990:11769 HCAPLUS  
 DN 112:11769

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3734185	A1	19890427	DE 1987-3734185	19871009

L49 ANSWER 85 OF 151 MEDLINE on STN DUPLICATE 23  
 TI Identification of critical functional and regulatory domains in gelsolin.  
 SO The Journal of cell biology, (1989 May) Vol. 108, No. 5, pp. 1717-26.  
 Journal code: 0375356. ISSN: 0021-9525.  
 AU Kwiatkowski D J; Janmey P A; Yin H L  
 AN 89234161 MEDLINE

L49 ANSWER 86 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Studies on microbial production of undecane-1,11-dicarboxylic acid from N-tridecane  
 SO Shengwu Gongcheng Xuebao (1989), 5(3), 241-5  
 CODEN: SGXUED; ISSN: 1000-3061  
 AU Chen, Yuantong; Hao, Xiuzhen  
 AN 1990:19916 HCAPLUS  
 DN 112:19916

L49 ANSWER 87 OF 151 MEDLINE on STN DUPLICATE 24  
 TI Genetic analysis and regulation of the Rhizobium meliloti genes controlling C4-dicarboxylic acid transport.  
 SO Gene, (1989 Dec 21) Vol. 85, No. 1, pp. 135-44.  
 Journal code: 7706761. ISSN: 0378-1119.  
 AU Wang Y P; Birkenhead K; Boesten B; Manian S; O'Gara F  
 AN 90152354 MEDLINE

L49 ANSWER 88 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Dicarboxylic acid utilization and nitrogen fixation efficiency in Rhizobium-legume symbiosis  
 SO Comm. Eur. Communities, [Rep.] EUR (1988), EUR 11517, Physiol. Limitations Genet. Improv. Symbiotic Nitrogen Fixation, 149-57  
 CODEN: CECED9; ISSN: 0303-755X  
 AU O'Gara, F.; Birkenhead, K.; Wang, Y. P.; Condon, C.; Manian, S. S.  
 AN 1988:543523 HCAPLUS  
 DN 109:143523

L49 ANSWER 89 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Dicarboxylic acid transport genes;  
     plasmids encoding Rhizobium spp. dicarboxylic acid transport gene; bacterium transformation for improved nitrogen-fixation  
 AN 1988-04310 BIOTECHDS  
 PI EP 255340 3 Feb 1988

L49 ANSWER 90 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Aromatic polycarbonate and amorphous polyamide blends - containing polyamide polyether block copolymer, having improved impact resistance, useful as thermoplastic moulding compsn..

PI US 4749754 A 19880607 (198825)\* 16  
EP 301234 A 19890201 (198905) EN  
R: DE FR GB IT NL  
JP 01087655 A 19890331 (198919)  
EP 301234 B1 19940323 (199412) EN 18 C08L077-00  
R: DE FR GB IT NL  
DE 3888592 G 19940428 (199418) C08L077-00  
IN GALLUCCI, R R; MARESCA, L M

L49 ANSWER 91 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Novel polyester amide(s) and polyether ester amide(s) - prepared from di carboxylic polyamide, di-beta-hydroxy tert. amine and polyoxyalkylene glycol containing tert. amine gp..

PI EP 281461 A 19880907 (198836)\* FR 17  
R: AT BE CH DE ES FR GB IT LI NL SE  
FR 2611727 A 19880909 (198843)  
NO 8800147 A 19880919 (198843)  
JP 63227626 A 19880921 (198844)  
DK 8800979 A 19880827 (198846)  
FI 8800893 A 19880827 (198848)  
US 4839441 A 19890613 (198930) 10  
CA 1311079 C 19921201 (199302) FR C08G069-44  
EP 281461 B1 19930421 (199316) FR 21 C08G069-44  
R: AT BE CH DE ES FR GB IT LI NL SE  
DE 3880352 G 19930527 (199322) C08G069-44  
ES 2054838 T3 19940816 (199434) C08G069-44  
KR 9305139 B1 19930616 (199441) C08G063-16

IN CUZIN, D; JUDAS, D

L49 ANSWER 92 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Microbial reduction of carboxylic acids to alcohol(s) - using carbon mon oxide and/or formate in the presence of a mediator.

PI EP 279435 A 19880824 (198834)\* GE 4  
R: CH DE FR GB IT LI NL  
DE 3705272 A 19880901 (198836)  
JP 63216483 A 19880908 (198842)  
US 4851344 A 19890725 (198937)  
EP 279435 B1 19920805 (199232) GE 4 C12P007-02  
R: CH DE FR GB IT LI NL  
DE 3873371 G 19920910 (199238) C12P007-02  
JP 2672319 B2 19971105 (199749) 3 C12P007-04

IN LEBERTZ, H; SIMON, H

L49 ANSWER 93 OF 151 MEDLINE on STN DUPLICATE 26  
TI Symbiotic loci of Rhizobium meliloti identified by random TnphoA mutagenesis.

SO Journal of bacteriology, (1988 Sep) Vol. 170, No. 9, pp. 4257-65.  
Journal code: 2985120R. ISSN: 0021-9193.

AU Long S; McCune S; Walker G C  
AN 88314927 MEDLINE

L49 ANSWER 94 OF 151 MEDLINE on STN DUPLICATE 27  
TI Dicarboxylic acid transport in Bradyrhizobium japonicum: use of Rhizobium meliloti dct gene(s) to enhance nitrogen fixation.  
SO Journal of bacteriology, (1988 Jan) Vol. 170, No. 1, pp. 184-9.  
Journal code: 2985120R. ISSN: 0021-9193.

AU Birkenhead K; Manian S S; O'Gara F  
AN 88086866 MEDLINE

L49 ANSWER 95 OF 151 LIFESCI COPYRIGHT 2006 CSA on STN

- TI From petroleum to muscone and related compounds.  
 HORIZONS OF BIOCHEMICAL ENGINEERING.  
 SO (1988) pp. 163-170.  
 ISBN: 0-19-856196-2.  
 AU Chiao, Jui-Shen; Aiba, S. [editor]  
 AN 88:38813 LIFESCI
- L49 ANSWER 96 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI Muconic acid preparation from the culture of *Arthrobacter* spp. or a mutant;  
     or from strains of *Corynebacterium acetoacidophilum* *Corynebacterium lilium* *Brevibacterium* or *Microbacterium* using benzoic acid as the C-source  
 AN 1986-08706 BIOTECHDS  
 PI DE 3541581 28 May 1986
- L49 ANSWER 97 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Microbial rennet obt.d. from *Mucor pusillus* - is improved by acylating with di carboxylic acid anhydride then oxidising with oxidising agent.  
 PI JP 61185186 A 19860818 (198639)\* 22
- L49 ANSWER 98 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Production of brassylic acid by fermentation  
 SO Bio Industry (1986), 3(12), 867-74  
 CODEN: BIINEG; ISSN: 0910-6545  
 AU Taoka, Akira  
 AN 1987:174559 HCPLUS  
 DN 106:174559
- L49 ANSWER 99 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 28  
 TI DICARBOXYLIC-ACID TRANSPORT IN RHIZOBIUM-MELIOTI - ISOLATION OF MUTANTS AND CLONING OF DICARBOXYLIC-ACID TRANSPORT GENES  
 SO ARCHIVES OF MICROBIOLOGY, (MAR 1986) Vol. 144, No. 2, pp. 142-146.  
 ISSN: 0302-8933.  
 AU BOLTON E (Reprint); HIGGISSON B; HARRINGTON A; OGARA F  
 AN 1986:196483 SCISEARCH
- L49 ANSWER 100 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Photochemistry of 3,4,9,10-perylenetetracarboxylic dianhydride dyes: visible absorption and fluorescence spectra and fluorescence quantum yields of the mono(n-octyl)imide derivative in aqueous and non-aqueous solutions  
 SO Journal of Photochemistry (1986), 34(1), 43-54  
 CODEN: JPCMAE; ISSN: 0047-2670  
 AU Ford, William E.  
 AN 1986:524065 HCPLUS  
 DN 105:124065
- L49 ANSWER 101 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Cathode depositing electrodeposition coating compsn. - has low temperature curability and high corrosion resistance.  
 PI EP 141601 A 19850515 (198520)\* EN 56  
     R: DE GB  
     JP 60090273 A 19850521 (198526)  
     JP 60090274 A 19850521 (198526)  
     US 4543406 A 19850924 (198541)  
     JP 60219272 A 19851101 (198550)  
     EP 141601 B 19870527 (198721) EN  
     R: DE GB  
     DE 3463944 G 19870702 (198727)  
     JP 02038142 B 19900829 (199038)  
     JP 02046069 B 19901012 (199045)  
     JP 02046070 B 19901012 (199045)

IN ARAKI, Y; OMIKA, H; OSHIMA, A; OTSUKI, Y; TSUCHIYA, Y  
 L49 ANSWER 102 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Genes involved in the carbon metabolism of bacteroids  
 SO Nitrogen Fixation Res. Prog., Proc. Int. Symp., 6th (1985), 201-7.  
 Editor(s): Evans, Harold J.; Bottomley, Peter J.; Newton, William Edward.  
 Publisher: Nijhoff, Dordrecht, Neth.  
 CODEN: 54VZAZ  
 AU Ronson, Clive W.; Astwood, Patricia M.  
 AN 1986:103204 HCAPLUS  
 DN 104:103204

L49 ANSWER 103 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Molecular cloning and genetic organization of C4-dicarboxylate transport  
 genes from Rhizobium leguminosarum  
 SO Adv. Mol. Genet. Bact.-Plant Interact., Proc. Int. Symp., 2nd (1985),  
 Meeting Date 1984, 61-3. Editor(s): Szalay, Aladar A.; Legocki, Roman P.  
 Publisher: Boyce Thompson Inst. Plant Res., Ithaca, N. Y.  
 CODEN: 55IDAD  
 AU Ronson, Clive W.; Astwood, Patricia M.; Downie, J. Allan  
 AN 1987:44789 HCAPLUS  
 DN 106:44789

L49 ANSWER 104 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthesis of thermotropic polyesters  
 SO Acta Polymerica (1984), 35(10), 636-42  
 CODEN: ACPODY; ISSN: 0323-7648  
 AU Markova, G. D.; Keshelava, R. G.; Vasnev, V. A.; Vinogradova, S. V.;  
 Korshak, V. V.; Borisov, G.; Sevriev, Kh.  
 AN 1984:611826 HCAPLUS  
 DN 101:211826

L49 ANSWER 105 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Diagenetic chemistry of the Paraiba Valley oil shale  
 SO Organic Geochemistry (1984), 6(Adv. Org. Geochem. 1983), 153-5  
 CODEN: ORGEDE; ISSN: 0146-6380  
 AU Chicarelli, M. I.; Damasceno, L. P.; Cardoso, J. N.  
 AN 1985:456460 HCAPLUS  
 DN 103:56460

L49 ANSWER 106 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI An isolating method for dicarboxylic acid;  
     from a fermentation broth  
 AN 1983-07579 BIOTECHDS  
 PI JP 58086090 23 May 1983

L49 ANSWER 107 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
 TI A microbial preparation method for unsaturated  
     dicarboxylic acid;  
     preparation of alpha,omega-linear unsaturated dicarboxylic acid from  
     fatty acid using Candida tropicalis  
 AN 1984-01154 BIOTECHDS  
 PI JP 58165794 30 Sep 1983

L49 ANSWER 108 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Bicyclo[2.2.1]-7-oxaheptenes  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 AN 1984:119329 HCAPLUS  
 DN 100:119329  
 PATENT NO.                    KIND                    DATE                    APPLICATION NO.                    DATE  
 -----                    -----                    -----                    -----                    -----  
 PI JP 58134995                    A2                    19830811                    JP 1982-12080                    19820128

L49 ANSWER 109 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Long chain di carboxylic acid preparation from oil and fat - by culturing  
Candida genus microorganism e.g. C. tropicalis 1098 (FERM-3291) in oil and  
fat-containing medium.

PI JP 58165795 A 19830930 (198345)\* 5  
JP 60008796 B 19850305 (198513)

L49 ANSWER 110 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Spontaneous 2:1 sequence-regulated copolymerization of cyclic imino ethers  
with cyclic carboxylic anhydrides

SO Macromolecules (1982), 15(3), 703-7  
CODEN: MAMOBX; ISSN: 0024-9297

AU Kobayashi, Shiro; Isobe, Michihisa; Saegusa, Takeo  
AN 1982:406817 HCAPLUS

DN 97:6817

L49 ANSWER 111 OF 151 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation  
on STN DUPLICATE 30

TI STABILIZATION OF MICROBIAL PROTEASES AGAINST AUTOLYSIS USING  
ACYLATION WITH DICARBOXYLIC-ACID ANHYDRIDES

SO BIOTECHNOLOGY AND BIOENGINEERING, (1982) Vol. 24, No. 2, pp. 483-486.  
ISSN: 0006-3592.

AU MANEPPUN S (Reprint); KLIBANOV A M  
AN 1982:75409 SCISEARCH

L49 ANSWER 112 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Removal of microbial cells from fermented broth of long chain  
dicarboxylic acid

SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF

AN 1981:513398 HCAPLUS

DN 95:113398

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 56026193	A2	19810313	JP 1979-101622	19790809
JP 57055399	B4	19821124		

L49 ANSWER 113 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Copper complexes, their use in controlling plant pests

SO Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

IN Kraft, Helmut; Schumacher, Heinz; Pommer, Ernst Heinrich; Schlotterbeck,  
Dietrich; Ley, Gregor

AN 1982:81340 HCAPLUS

DN 96:81340

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI EP 39788	A2	19811118	EP 1981-102722	19810410
EP 39788	A3	19811125		
EP 39788	B1	19830928		
R: AT, BE, CH, DE, FR, IT, NL, SE				
DE 3017123	A1	19811105	DE 1980-3017123	19800503
DE 3022432	A1	19820107	DE 1980-3022432	19800614
DE 3039409	A1	19820519	DE 1980-3039409	19801018
AT 4766	E	19831015	AT 1981-102722	19810410

L49 ANSWER 114 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Refining long linear di carboxylic acids - prepared by fermentation, by  
dissolving initially separated acids in alkali and adding white clay to remove  
impurities.

PI JP 56026194 A 19810313 (198118)\*  
JP 57055400 B 19821124 (198250)

L49 ANSWER 115 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Recovery of di carboxylic acids prepared by fermentation - comprises adding  
inorganic acid, extracting the di carboxylic acid with aromatic

- PI hydrocarbon solvent, and re-extracting into diol.  
 PI JP 56015695 A 19810214 (198114)\*
- L49 ANSWER 116 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Refining di carboxylic acid produced by fermentation - by adding inorganic acid to crystallise acid, extracting with organic hydrocarbon contacting with organic solvent and recrystallising.  
 PI JP 56015694 A 19810214 (198114)\*
- L49 ANSWER 117 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Refining di carboxylic acid prepared by fermentation - by adding inorganic acid, extracting with solvent, contacting with aldehyde cpd. and crystallising out acid.  
 PI JP 56015693 A 19810214 (198114)\*
- L49 ANSWER 118 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Refining di carboxylic acid obtd. by fermentation - by removing microbial body, regulating pH, crystallising out acid, heating and recrystallising.  
 PI JP 56011797 A 19810205 (198113)\*
- L49 ANSWER 119 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Fermentative production of di carboxylic acid - by culturing Candida tropicalis in liquid medium containing linear hydrocarbon at specified pH ranges.  
 PI JP 56011796 A 19810205 (198113)\*  
 US 4339536 A 19820713 (198230)  
 JP 58029077 B 19830620 (198328)
- L49 ANSWER 120 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Biochemical separation of L-menthol  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 AN 1981:14031 HCPLUS  
 DN 94:14031  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 55048396	A2	19800407	JP 1978-121224	19781222
- L49 ANSWER 121 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Polyester(s) useful for fibres and plastics - prepared by interfacial condensn. of aromatic di carboxylic acid halide or anhydride with bisphenol dissolved in specified solvents.  
 PI US 4201855 A 19800506 (198020)\*  
 IN SEGAL, L
- L49 ANSWER 122 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Radioactive labeling of acidic regions in the adenovirus hexon protein through metabolic conversion of [14C]-acetate  
 SO FEBS Letters (1978), 88(2), 237-41  
 CODEN: FEBLAL; ISSN: 0014-5793  
 AU Jornvall, Hans; Von Bahr-Lindstrom, Hedvig; Philipson, Lennart  
 AN 1978:402674 HCPLUS  
 DN 89:2674
- L49 ANSWER 123 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Microbial production of long-chain dicarboxylic acids from n-alkanes  
 SO Sekiyu to Biseibutsu (1978), 20, 13-16  
 CODEN: STBIDP  
 AU Uchio, Ryosuke  
 AN 1980:96378 HCPLUS  
 DN 92:96378
- L49 ANSWER 124 OF 151 HCPLUS COPYRIGHT 2006 ACS on STN  
 TI Microbial production of dicarboxylic acid  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF  
IN Furukawa, Toshiro; Hiratsuka, Junzo; Deno, Hiroshi; Matsuyoshi, Toru;  
Kaneyuki, Hiroo

AN 1977:187699 HCAPLUS

DN 86:187699

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52018885	A2	19770212	JP 1975-95053	19750806
JP 56008595	B4	19810224		

L49 ANSWER 125 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Prostaglandin derivatives preparation - by hydrolysing a cyclopentenone  
dicarboxylic acid ester derivative with either enzymes or  
microbes.

PI JP 52028993 A 19770304 (197715)\*  
JP 56008594 B 19810224 (198112)

L49 ANSWER 126 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Microbial prodn of dicarboxylic acid - from  
alkane or alcohol using *Torulopsis bombicola* strain.  
PI US 3975234 A 19760817 (197635)\*

L49 ANSWER 127 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Thick grease from lithium soaps

SO Fr. Demande, 15 pp.  
CODEN: FRXXBL

AN 1976:47026 HCAPLUS

DN 84:47026

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2255374	A1	19750718	FR 1973-46016	19731221
FR 2255374	B1	19800620		

L49 ANSWER 128 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Bis-ar-oxazolyl-para-poly-phenylenes, production - from di-carboxylic acid and  
ortho-amino-hydroxy cpds. and use as optical brighteners.  
PI CH 559737 A 19750314 (197517)\*

L49 ANSWER 129 OF 151 MEDLINE on STN DUPLICATE 31  
TI 7alpha-Carboalkoxy steroidal spirolactones as aldosterone antagonists.  
SO Journal of medicinal chemistry, (1975 Aug) Vol. 18, No. 8, pp. 817-21.  
Journal code: 9716531. ISSN: 0022-2623.  
AU Weier R M; Hofmann L M  
AN 76007391 MEDLINE

L49 ANSWER 130 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Printing ink binder containing modified hydrocarbon resin - prepared from  
hydrocarbon resin with low indene content, unsaturated dicarboxylic acid,  
and phenol/aldehyde condensate.

PI NL 7317761 A 19740702 (197429)\*  
DE 2264284 A 19740718 (197430)  
BE 809087 A 19740627 (197434)  
FR 2212406 A 19740830 (197443)  
JP 49101103 A 19740925 (197448)  
GB 1458219 A 19761207 (197650)  
JP 52020881 B 19770607 (197726)  
NL 155878 B 19780215 (197811)  
US 4197378 A 19800408 (198016)  
DE 2264284 C 19820527 (198222)  
US 4401791 A 19830830 (198337)  
US 4506059 A 19850319 (198514)  
JP 35106867 B 19850612 (198530)  
JP 62009627 B 19870302 (198712)

L49 ANSWER 131 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

- TI Role of malic enzymic in *Aspergillus nidulans*  
 SO FEBS Letters (1974), 41(2), 238-42  
 CODEN: FEBLAL; ISSN: 0014-5793  
 AU McCullough, W.; Roberts, C. F.  
 AN 1974:422972 HCAPLUS  
 DN 81:22972
- L49 ANSWER 132 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Biochemical and genetic characteristics of the C4-dicarboxylic acids transport system of *Salmonella typhimurium*  
 SO Archiv fuer Mikrobiologie (1973), 94(1), 65-76  
 CODEN: ARMKA7; ISSN: 0003-9276  
 AU Parada, Jose L.; Ortega, Manuel V.; Carrillo-Castaneda, Guillermo  
 AN 1974:130275 HCAPLUS  
 DN 80:130275
- L49 ANSWER 133 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Two-stage preparation of high-dropping-point lithium soap grease  
 SO U.S., 3 pp.  
 CODEN: USXXAM  
 IN Gilani, Syed S. H.; Murray, Donald W.; Salva, Juan M.  
 AN 1972:542107 HCAPLUS  
 DN 77:142107  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 3681242	A	19720801	US 1971-110596	19710128
- L49 ANSWER 134 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI SYNTHESIS AND ANTI MICROBIAL ACTIVITY OF THIO CARBOHYDRAZIDE-1 5-DICARBOXYLIC-ACID DI ESTERS.  
 SO Journal of Pharmaceutical Sciences, (1972) Vol. 61, No. 9, pp. 1486-1487.  
 CODEN: JPMSAE. ISSN: 0022-3549.  
 AU LALEZARI I; REZVANI N; MALEKZADEH F  
 AN 1973:112853 BIOSIS
- L49 ANSWER 135 OF 151 MEDLINE on STN  
 TI [Microbiological method of preparing 2,6-naphthalene dicarboxylic acid in co-oxidative conditions].  
 Mikrobiologicheskii sposob poluchenia 2,6-naftalindikarbonovoi kisloty v sookislitel'nykh usloviakh.  
 SO Doklady Akademii nauk SSSR, (1972 Feb 1) Vol. 202, No. 4, pp. 973-4.  
 Journal code: 7505465. ISSN: 0002-3264.  
 AU Shriabin G K; Starovoitov I I; Golovleva L A  
 AN 72131260 MEDLINE
- L49 ANSWER 136 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Strained ring systems. IX. Preparation of some 5-substituted bicyclo[3.1.0]hexane-1-carboxylic acids  
 SO Journal of Organic Chemistry (1970), 35(8), 2666-9  
 CODEN: JOCEAH; ISSN: 0022-3263  
 AU McDonald, Richard N.; Reitz, Robert R.  
 AN 1970:466111 HCAPLUS  
 DN 73:66111
- L49 ANSWER 137 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
 TI Mass-spectrometric determination of amino acid sequences in peptides. XV. Fragmentation of peptides containing monoamino dicarboxylic acid groups  
 SO Zhurnal Obshchei Khimii (1970), 40(2), 443-60  
 CODEN: ZOKHA4; ISSN: 0044-460X  
 AU Shemyakin, M. M.; Ovchinnikov, Yu. A.; Kiryushkin, A. A.; Miroshnikov, A. I.; Rozynov, B. V.  
 AN 1970:133185 HCAPLUS  
 DN 72:133185

- L49 ANSWER 138 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Two mutations affecting utilization of C4-dicarboxylic acids by Escherichia coli  
SO Journal of General Microbiology (1970), 63(Pt. 2), 151-62  
CODEN: JGMIAN; ISSN: 0022-1287  
AU Herbert, A. A.; Guest, John R.  
AN 1971:108535 HCAPLUS  
DN 74:108535
- L49 ANSWER 139 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of polyamides from rigid and sterically hindered dicarboxylic acids and diamines under mild conditions  
SO Journal of Polymer Science, Polymer Chemistry Edition (1969), 7(10), 2875-87  
CODEN: JPLCAT; ISSN: 0449-296X  
AU Overberger, Charles G.; Sebenda, Jan  
AN 1970:3853 HCAPLUS  
DN 72:3853
- L49 ANSWER 140 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Curing profile of unsaturated polyester resins  
SO Kunststoffe (1968), 58(12), 925-32  
CODEN: KUNSAV; ISSN: 0023-5563  
AU Demmler, Kurt; Ropte, Eckhard  
AN 1969:88517 HCAPLUS  
DN 70:88517
- L49 ANSWER 141 OF 151 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI PREPARATION OF OPTICALLY ACTIVE DICARBOXYLIC-ACID MONO ESTERS BY MICROBIOLOGICAL PARTIAL SAPONIFICATION OF SYMMETRIC DICARBOXYLIC-ACID ESTERS CURVULARIA-LUNATA PENICILLIUM-ALBIDUM.  
SO JUSTUS LIEBIGS ANN CHEM, (1968) No. 711, pp. 38-41.  
AU KOSMOL H; KIESLICH K; GIBIAN H  
AN 1969:100289 BIOSIS
- L49 ANSWER 142 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of optically active dicarboxylic acid monoesters by microbiological partial saponification of symmetrical dicarboxylic acid esters  
SO Justus Liebigs Annalen der Chemie (1968), 711, 38-41  
CODEN: JLACBF; ISSN: 0075-4617  
AU Kosmol, Horst; Kieslich, Klaus; Gibian, Heinz  
AN 1968:95464 HCAPLUS  
DN 68:95464
- L49 ANSWER 143 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Optically active 8,8'-dimethyl-1,1'-binaphthyl. The energy barrier for racemization  
SO Chemistry & Industry (London, United Kingdom) (1964), (32), 1426  
CODEN: CHINAG; ISSN: 0009-3068  
AU Badar, Yasmeen; Harris, Margaret M.  
AN 1964:461276 HCAPLUS  
DN 61:61276  
OREF 61:10570b-d
- L49 ANSWER 144 OF 151 MEDLINE on STN DUPLICATE 32  
TI Microbial oxidation of glycollate via a dicarboxylic acid cycle.  
SO Nature, (1960 Jan 16) Vol. 185, pp. 153-5.  
Journal code: 0410462. ISSN: 0028-0836.  
AU KORNBERG H L; SADLER J R  
AN 60163706 MEDLINE

L49 ANSWER 145 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN  
TI Ethylene oxide- $\alpha$ , $\beta$ - dicarboxylic acid  
(fumarylglycidic acid) production by microbes. VI. Fermentation  
by Monilia formosa in the presence of radioactive carbon dioxide  
SO Nippon Nogei Kagaku Kaishi (1954), 28, 376-82  
CODEN: NNNKAA; ISSN: 0002-1407  
AU Nomura, Masayasu; Takahashi, Hajime; Sakaguchi, Kinichiro  
AN 1956:82973 HCAPLUS  
DN 50:82973  
OREF 50:15722a-c

L49 ANSWER 146 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Azo dye  
IN Stusser, Richard  
AN 1929:11205 HCAPLUS  
DN 23:11205  
OREF 23:1281d-e

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 469340		19281208	DE 1927-I30579	19270311

L49 ANSWER 147 OF 151 NTIS COPYRIGHT 2006 NTIS on STN

TI Microbial Utilization of Benzoic Acid.  
NR PB86-239340/XAB  
8p; c1985  
AU Yoshikawa, N.  
AN 1986(19):00970 NTIS

L49 ANSWER 148 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Microbiological 1-dehydrogenation of 4,9 (11)-pregnadienes - using

septomyxa affinis.  
PI US 3770586 A (197346)\*  
JP 49046076 B 19741207 (197502)

L49 ANSWER 149 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI 2,6-naphthalene dicarboxylic acid (i) prodn - by

microbiological oxidn of 2,6-dimethylnaphthalene.  
PI SU 370228 A (197344)\*

L49 ANSWER 150 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Sequenced copolyester - contg units from polyoxyalkylene glycol,  
aromatic dicarboxylic acid and low m wt diol.

PI BE 793332 A (197324)\*  
NL 7300516 A (197333)  
DE 2263046 A (197335)  
ZA 7300083 A (197343)  
FR 2169052 A (197347)  
JP 48084195 A 19731108 (197403)  
US 3784520 A 19740108 (197403)  
GB 1403210 A 19750820 (197534)  
AR 203264 A 19750829 (197616)  
CA 987830 A 19760420 (197619)  
DE 2263046 B 19780817 (197834)  
NL 162941 B 19800215 (198010)

L49 ANSWER 151 OF 151 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Block polymers-of unsymmetrical and non-linear structure.

PI BE 767474 A (197147)\*  
DE 2125344 A (197149)  
NL 7106861 A (197149)  
JP 46007289 A (197202)  
ZA 7103278 A (197206)  
FR 2093581 A (197217)  
GB 1312854 A (197315)

CA 997889            A 19760928 (197642)  
NL 162935            B 19800215 (198010)  
JP 55030005          B 19800807 (198036)  
DE 2125344           C 19820204 (198206)

=> s pox4?  
FILE 'MEDLINE'  
L50                14 POX4?  
  
FILE 'SCISEARCH'  
L51                7 POX4?  
  
FILE 'LIFESCI'  
L52                11 POX4?  
  
FILE 'BIOTECHDS'  
L53                10 POX4?  
  
FILE 'BIOSIS'  
L54                18 POX4?  
  
FILE 'EMBASE'  
L55                12 POX4?  
  
FILE 'HCAPLUS'  
L56                32 POX4?  
  
FILE 'NTIS'  
L57                0 POX4?  
  
FILE 'ESBIOBASE'  
L58                6 POX4?  
  
FILE 'BIOTECHNO'  
L59                11 POX4?  
  
FILE 'WPIDS'  
L60                10 POX4?  
  
TOTAL FOR ALL FILES  
L61                131 POX4?  
  
=> s l61 and (candida or tropicalis or promoter?)  
FILE 'MEDLINE'  
    35763 CANDIDA  
    2622 TROPICALIS  
    128040 PROMOTER?  
L62                12 L50 AND (CANDIDA OR TROPICALIS OR PROMOTER?)  
  
FILE 'SCISEARCH'  
    30406 CANDIDA  
    2646 TROPICALIS  
    135187 PROMOTER?  
L63                6 L51 AND (CANDIDA OR TROPICALIS OR PROMOTER?)  
  
FILE 'LIFESCI'  
    14778 CANDIDA  
    1585 TROPICALIS  
    71444 PROMOTER?  
L64                8 L52 AND (CANDIDA OR TROPICALIS OR PROMOTER?)  
  
FILE 'BIOTECHDS'  
    7866 CANDIDA  
    670 TROPICALIS

37790 PROMOTER?  
L65 10 L53 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'BIOSIS'  
47100 CANDIDA  
5546 TROPICALIS  
140707 PROMOTER?  
L66 13 L54 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'EMBASE'  
34380 CANDIDA  
2863 TROPICALIS  
109197 PROMOTER?  
L67 9 L55 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'HCAPLUS'  
38754 CANDIDA  
4595 TROPICALIS  
197199 PROMOTER?  
L68 24 L56 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'NTIS'  
207 CANDIDA  
18 TROPICALIS  
1762 PROMOTER?  
L69 0 L57 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'ESBIOBASE'  
9887 CANDIDA  
1053 TROPICALIS  
74585 PROMOTER?  
L70 4 L58 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'BIOTECHNO'  
7887 CANDIDA  
839 TROPICALIS  
76660 PROMOTER?  
L71 9 L59 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

FILE 'WPIDS'  
6985 CANDIDA  
574 TROPICALIS  
39911 PROMOTER?  
L72 9 L60 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

TOTAL FOR ALL FILES  
L73 104 L61 AND (CANDIDA OR TROPICALIS OR PROMOTER?)

=> s 173 not 2003-2006/py

FILE 'MEDLINE'  
2108991 2003-2006/PY  
(20030000-20069999/PY)  
L74 12 L62 NOT 2003-2006/PY

FILE 'SCISEARCH'  
3861676 2003-2006/PY  
(20030000-20069999/PY)  
L75 6 L63 NOT 2003-2006/PY

FILE 'LIFESCI'  
351389 2003-2006/PY  
L76 8 L64 NOT 2003-2006/PY

FILE 'BIOTECHDS'  
90994 2003-2006/PY

L77 7 L65 NOT 2003-2006/PY

## FILE 'BIOSIS'

1749059 2003-2006/PY

L78 13 L66 NOT 2003-2006/PY

**FILE 'EMBASE'**

1809766 2003-2006/PY

L79 9 L67 NOT 2003-2006/PY

**FILE 'HCAPLUS'**

4008365 2003-2006/PY

L80 18 L68 NOT 2003-2006/PY

FILE 'NTIS'

48776 2003-2006/PY

L81 0 L69 NOT 2003-2006/PY

FILE 'ESBIOBASE'

1064975 2003-2006/PY

L82 4 L70 NOT 2003-2006/PY

FILE 'BIOTECHNO'

122467 2003-2006/PY

T-83 9 T-71 NOT 2003-2006/PY

FILE 'WPTDS'

3640505 2003-2006/PY

T-84 4 T-72 NOT 2003-2006/PY

**TOTAL FOR ALL FILES**

T-85 90 T-73 NOT 2003-2006/PY

=> dup rem 185

PROCESSING COMPLETED FOR T-85

I-86 26 DUE REM I-85 (64 DUPLICATES REMOVED)

=> d\_tot

L86 ANSWER 1 OF 26 MEDLINE on STN DUPLICATE 1  
TI Analysis of POX4 and POX5 gene encoded proteins of  
Candida tropicalis 1230.  
SO Wei sheng wu xue bao = Acta microbiologica Sinica, (2002 Apr) Vol. 42, No.  
2, pp. 193-9.  
Journal code: 21610860R. ISSN: 0001-6209.  
AU Qin Wenyuan; Ren Gang; Rong Dong; Chen Yuantong  
AN 2003048723 MEDLINE

L86 ANSWER 2 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
TI Purification and recovery of dicarboxylic acids, particularly long chain  
dicarboxylic acids, from a feed containing dicarboxylic acids and at  
least one impurity by melt crystallization;  
for use in DNA purification  
AU Kozak W G; Rebrovic L; Gottman A M; Staley M D  
AN 2001-09214 BIOTECHDS  
PT WO 2001021572 28 Mar 2001

L86 ANSWER 3 OF 26 MEDLINE on STN DUPLICATE 3  
TI Repression of fatty-acyl-CoA oxidase-encoding gene expression is not necessarily a determinant of high-level production of dicarboxylic acids in industrial dicarboxylic-acid-producing *Candida tropicalis*.  
SO Applied microbiology and biotechnology, (2001 Aug) Vol. 56, No. 3-4, pp. 478-85.  
Journal code: 8406612. ISSN: 0175-7598.

- AU Hara A; Ueda M; Matsui T; Arie M; Saeki H; Matsuda H; Furuhashi K; Kanai T; Tanaka A  
 AN 2001499377 MEDLINE
- L86 ANSWER 4 OF 26 MEDLINE on STN DUPLICATE 4  
 TI Novel and convenient methods for *Candida tropicalis* gene disruption using a mutated hygromycin B resistance gene.  
 SO Archives of microbiology, (2001 Nov) Vol. 176, No. 5, pp. 364-9.  
 Journal code: 0410427. ISSN: 0302-8933.  
 AU Hara A; Arie M; Kanai T; Matsui T; Matsuda H; Furuhashi K; Ueda M; Tanaka A  
 AN 2001648937 MEDLINE
- L86 ANSWER 5 OF 26 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
 TI Carboxylic acid recovery involves adjusting viscosity of fermentation broth and contacting with liquid extractant.  
 PI WO 2000020620 A2 20000413 (200028)\* EN 35 C12P017-00  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL  
 OA PT SD SE SL SZ TZ UG ZW  
 W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB  
 GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
 LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
 TT UA UG UZ VN YU ZA ZW  
 AU 9963871 A 20000426 (200036) C12P017-00  
 IN KOZAK, W G; REBROVIC, L; STALEY, M D; VICE, G H
- L86 ANSWER 6 OF 26 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Involvement of acyl coenzyme A oxidase isozymes in biotransformation of methyl ricinoleate into gamma-decalactone by *Yarrowia lipolytica*  
 SO APPLIED AND ENVIRONMENTAL MICROBIOLOGY, (MAR 2000) Vol. 66, No. 3, pp. 1233-1236.  
 ISSN: 0099-2240.  
 AU Wache Y (Reprint); Laroche C; Bergmark K; Moller-Andersen C; Aguedo M; Le Dall M T; Wang H J; Nicaud J M; Belin J M  
 AN 2000:184408 SCISEARCH
- L86 ANSWER 7 OF 26 HCPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5  
 TI Process for making polycarboxylic acids  
 SO U.S., 11 pp., Cont. of U.S. Ser. No. 757,555, abandoned.  
 CODEN: USXXAM  
 IN Anderson, Kevin W.; Wenzel, J. Douglas; Fayter, Richard G.; McVay, Kenneth R.  
 AN 1999:633278 HCPLUS  
 DN 131:256409
- | PATENT NO.                                | KIND | DATE   | APPLICATION NO. | DATE     |
|---|------|--|-----------------|----------|
| US 5962285                                | A    | 19991005   | US 1998-106611  | 19980623 |
| CA 2343315                                | AA   | 20000323   | CA 1998-2343315 | 19980917 |
| WO 2000015828                             | A1   | 20000323   | WO 1998-US18494 | 19980917 |
|   | W:   | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,<br>DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,<br>KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,<br>NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,<br>UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |                 |          |
|   | RW:  | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,<br>FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,<br>CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |                 |          |
| AU 9894741                                | A1   | 20000403   | AU 1998-94741   | 19980917 |
| EP 1114174                                | A1   | 20010711   | EP 1998-948100  | 19980917 |
| R: AT, DE, DK, ES, FR, GB, IT, NL, IE, FI |      |  |                 |          |
| JP 2002525069                             | T2   | 20020813   | JP 2000-570355  | 19980917 |
| IN 187718                                 | A    | 20020615   | IN 1998-MA2153  | 19980924 |
- L86 ANSWER 8 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Production of mono- and di-carboxylic alkanoic acids in new engineered yeast;  
vector plasmid-mediated cytochrome-P450-monoxygenase and

cytochrome-P450-reductase gene transfer and expression in *Pichia pastoris* and *Candida maltosa*

AU Fallon R D; Payne M S; Picataggio S K; Wu S

AN 1999-04979 BIOTECHDS

PI WO 9904014 28 Jan 1999

L86 ANSWER 9 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Controlling germination of seeds by transforming with construct encoding germination-inhibitor;

and restorer gene inducible expression in a transgenic plant; soybean acyl-CoA-oxidase gene transfer

AU Agarwal A K; Brown S M; Qi Y

AN 1998-02208 BIOTECHDS

PI WO 9744465 27 Nov 1997

L86 ANSWER 10 OF 26 MEDLINE on STN DUPLICATE 7

TI Gene analysis of an NADP-linked isocitrate dehydrogenase localized in peroxisomes of the n-alkane-assimilating yeast *Candida tropicalis*.

SO European journal of biochemistry / FEBS, (1997 Nov 15) Vol. 250, No. 1, pp. 205-11.

Journal code: 0107600. ISSN: 0014-2956.

AU Kawachi H; Shimizu K; Atomi H; Sanuki S; Ueda M; Tanaka A

AN 1998092307 MEDLINE

L86 ANSWER 11 OF 26 LIFESCI COPYRIGHT 2006 CSA on STN

TI Cloning and characterization of the POX2 gene in *Candida maltosa*

SO GENE, (1996) vol. 167, no. 1-2, pp. 157-161.

ISSN: 0378-1119.

AU Masuda, Y.; Park, S.M.; Ohta, A.; Takagi, M.

AN 96:26410 LIFESCI

L86 ANSWER 12 OF 26 MEDLINE on STN DUPLICATE 8

TI Cloning and characterization of the POX2 gene in *Candida maltosa*.

SO Gene, (1995 Dec 29) Vol. 167, No. 1-2, pp. 157-61.

Journal code: 7706761. ISSN: 0378-1119.

AU Masuda Y; Park S M; Ohta A; Takagi M

AN 96144267 MEDLINE

L86 ANSWER 13 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Production of saturated and unsaturated dicarboxylic acids by a metabolically-engineered strain of *Candida tropicalis* ;

metabolic engineering for improved dicarboxylic acid production from fatty acid by omega-oxidation (conference abstract)

SO Abstr.Pap.Am.Chem.Soc.; (1992) 203 Meet., Pt.1, BIOT143

CODEN: ACSRAL

AU Eirich L D; Lanning D M; Deanda K; Rohrer T; Mielenz J R; Picataggio S

AN 1992-08706 BIOTECHDS

L86 ANSWER 14 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Method for increasing omega-hydroxylase activity;

cytochrome-P450-ALK1, cytochrome-P450-ALK2 and/or cytochrome-P450-RED gene cloning in *Candida tropicalis* via gene disruption; gene dosage effect; alpha,omega-dicarboxylic acid production

AN 1992-00388 BIOTECHDS

PI WO 9114781 3 Oct 1991

L86 ANSWER 15 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI Site-specific modification of the *Candida tropicalis*

genome;  
POX4A, POX4B and POX5 beta-oxidation pathway gene  
disruption method; URA3, URA3B or HIS4 auxotrophy;  
alpha,omega-dicarboxylic acid preparation using mutant

AN 1991-09454 BIOTECHDS  
PI WO 9106660 16 May 1991

L86 ANSWER 16 OF 26 MEDLINE on STN DUPLICATE 11  
TI Determination of *Candida tropicalis* acyl coenzyme A  
oxidase isozyme function by sequential gene disruption.  
SO Molecular and cellular biology, (1991 Sep) Vol. 11, No. 9, pp. 4333-9.  
Journal code: 8109087. ISSN: 0270-7306.  
AU Picataggio S; Deanda K; Mielenz J  
AN 91342632 MEDLINE

L86 ANSWER 17 OF 26 HCPLUS COPYRIGHT 2006 ACS on STN  
TI Assignment of most genes encoding major peroxisomal polypeptides to  
chromosomal band V of the asporogenic yeast *Candida*  
*tropicalis*  
SO Yeast (1991), 7(5), 503-11  
CODEN: YESTE3; ISSN: 0749-503X  
AU Kamiryo, Tatsuyuki; Mito, Naruo; Niki, Toshiro; Suzuki, Takahito  
AN 1991:528920 HCPLUS  
DN 115:128920

L86 ANSWER 18 OF 26 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
TI MECHANISM OF INDUCTION OF ACYL-COA OXIDASE BY PEROXISOME PROLIFERATORS.  
SO Journal of Cell Biology, (1991) Vol. 115, No. 3 PART 2, pp. 234A.  
Meeting Info.: ABSTRACTS OF PAPERS PRESENTED AT THE THIRTY-FIRST ANNUAL  
MEETING OF THE AMERICAN SOCIETY FOR CELL BIOLOGY, BOSTON, MASSACHUSETTS,  
USA, DECEMBER 8-12, 1991. J CELL BIOL.  
CODEN: JCLBA3. ISSN: 0021-9525.  
AU WANG T W [Reprint author]; LEWIN A S; SMALL G M  
AN 1992:65859 BIOSIS

L86 ANSWER 19 OF 26 MEDLINE on STN DUPLICATE 12  
TI Structure and transcriptional control of the *Saccharomyces cerevisiae* POX1  
gene encoding acyl-coenzyme A oxidase.  
SO Gene, (1990 Apr 16) Vol. 88, No. 2, pp. 247-52.  
Journal code: 7706761. ISSN: 0378-1119.  
AU Dmochowska A; Dignard D; Maleszka R; Thomas D Y  
AN 90269614 MEDLINE

L86 ANSWER 20 OF 26 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN DUPLICATE 13  
TI EXPRESSION AND TRANSPORT OF CANDIDA-TROPICALIS  
PEROXISOMAL ACYL COENZYME A OXIDASE IN THE YEAST CANDIDA  
-MALTOSA.  
SO Agricultural and Biological Chemistry, (1989) Vol. 53, No. 1, pp. 179-186.  
CODEN: ABCHA6. ISSN: 0002-1369.  
AU KAMIRYO T [Reprint author]; SAKASEGAWA Y; TAN H  
AN 1989:244885 BIOSIS

L86 ANSWER 21 OF 26 LIFESCI COPYRIGHT 2006 CSA on STN  
TI Expression and transport of *Candida tropicalis*  
peroxisomal acyl-coenzyme A oxidase in the yeast *Candida maltosa*  
SO AGRIC. BIOL. CHEM., (1989) vol. 53, no. 1, pp. 171-186.  
AU Kamiryo, T.; Sakasegawa, Y.; Tan, H.  
AN 89:59822 LIFESCI

L86 ANSWER 22 OF 26 MEDLINE on STN DUPLICATE 14  
TI Acyl-CoA oxidase contains two targeting sequences each of which can  
mediate protein import into peroxisomes.

- SO The EMBO journal, (1988 Apr) Vol. 7, No. 4, pp. 1167-73.  
Journal code: 8208664. ISSN: 0261-4189.
- AU Small G M; Szabo L J; Lazarow P B  
AN 88296421 MEDLINE
- L86 ANSWER 23 OF 26 MEDLINE on STN DUPLICATE 15  
TI Import of the carboxy-terminal portion of acyl-CoA oxidase into peroxisomes of *Candida tropicalis*.
- SO The Journal of cell biology, (1987 Jul) Vol. 105, No. 1, pp. 247-50.  
Journal code: 0375356. ISSN: 0021-9525.
- AU Small G M; Lazarow P B  
AN 87280361 MEDLINE
- L86 ANSWER 24 OF 26 MEDLINE on STN DUPLICATE 16  
TI The primary structure of a peroxisomal fatty acyl-CoA oxidase from the yeast *Candida tropicalis* pK233.
- SO Gene, (1987) Vol. 51, No. 2-3, pp. 119-28.  
Journal code: 7706761. ISSN: 0378-1119.
- AU Murray W W; Rachubinski R A  
AN 87248070 MEDLINE
- L86 ANSWER 25 OF 26 MEDLINE on STN DUPLICATE 17  
TI Peroxisomal acyl-coenzyme A oxidase multigene family of the yeast *Candida tropicalis*; nucleotide sequence of a third gene and its protein product.
- SO Gene, (1987) Vol. 58, No. 1, pp. 37-44.  
Journal code: 7706761. ISSN: 0378-1119.
- AU Okazaki K; Tan H; Fukui S; Kubota I; Kamiryo T  
AN 88084444 MEDLINE
- L86 ANSWER 26 OF 26 MEDLINE on STN DUPLICATE 18  
TI Two acyl-coenzyme A oxidases in peroxisomes of the yeast *Candida tropicalis*: primary structures deduced from genomic DNA sequence.
- SO Proceedings of the National Academy of Sciences of the United States of America, (1986 Mar) Vol. 83, No. 5, pp. 1232-6.  
Journal code: 7505876. ISSN: 0027-8424.
- AU Okazaki K; Takechi T; Kambara N; Fukui S; Kubota I; Kamiryo T  
AN 86149279 MEDLINE
- => d ab 2,3,7,13,14
- L86 ANSWER 2 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN  
AB Dicarboxylic acids, particularly long chain dicarboxylic acids, are recovered from a feed containing dicarboxylic acids and at least one impurity. The method utilizes melt crystallization. Also claimed is a composition of two or more dicarboxylic acids such as octanedioic acid, nonanedion acid and decanedioic acid, etc. The method is used for the purification and recovery of dicarboxylic acids from a feed. The method does not require the use of organic solvents and achieves very high purities of dicarboxylic acids as a final product. The microorganism is a yeast cell such as *Candida tropicalis* cell. The *C. tropicalis* cell is partially or completely beta-oxidation blocked cell in which both copies of the chromosomal POX5 gene and the chromosomal POX4A and POX4B gene are disrupted. The feed is obtained by fermenting with a microorganism in a culture medium comprising a N-source, an organic substrate and optionally a co-substrate. (25pp)
- L86 ANSWER 3 OF 26 MEDLINE on STN DUPLICATE 3  
AB The synthesis of dicarboxylic acids (DCAs) in *Candida tropicalis* is thought to be induced by a decrease in fatty acyl-CoA-oxidase activity. However, in the present study we demonstrate that repression of the POX4 gene, encoding fatty acyl-CoA oxidase, does not directly lead to high-level production of DCAs. No

fatty acyl-CoA-oxidase activity was detected if the POX4 gene of *C. tropicalis* strain 1098 (wild-type strain) was disrupted. Furthermore, introduction of the POX4 gene from *C. tropicalis* strain M1210A3, which is a mutant derived from strain 1098 and is used as an industrial DCA-producing strain, still exhibited low-level fatty acyl-CoA-oxidase activity. Nevertheless, production of DCA was not observed in either case. Furthermore, the increase in acyl-CoA-oxidase activity by expression of the POX4 gene in strain M1210A3 did not reduce high-level production of DCA. These results suggest that alterations in acyl-CoA-oxidase activity are not necessarily related to production of DCA in industrial DCA-producing *C. tropicalis* M1210A3.

L86 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5

AB Aliphatic polycarboxylic acids are made by a process comprising the steps of: (1) fermenting a  $\beta$ -oxidation-blocked *Candida tropicalis* cell wherein both copies of the chromosomal POX5 gene and the chromosomal POX4A and POX4B genes are disrupted in a culture medium comprised of a N source, an organic substrate, and a cosubstrate wherein the substrate is an unsatd. aliphatic compound having  $\geq 1$  internal C=C double bond and  $\geq 1$  terminal Me group, a terminal -COOH group, and/or a terminal functional group which is oxidizable to a -COOH group by biooxidn. and (2) reacting the product of step (1) with an oxidizing agent to produce one or more polycarboxylic acids.

L86 ANSWER 13 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB *Candida tropicalis* can readily degrade fatty acids via beta-oxidation. However, some strains can produce small amounts of dicarboxylic acids via a competing omega-oxidation pathway. Attempts to improve dicarboxylic acid production by classical mutagenesis have not been successful in the past. A genetic transformation system was tested for sequential disruption of the POX4 and POX 5 genes encoding 2 acyl-CoA-oxidase isozymes which catalyze the first reaction step in the beta-oxidation pathway. The resultant strain produced high levels of dicarboxylic acids from either long-chain alkanes (C12-14) or saturated and unsaturated fatty acids (C14-2) without the problems of substrate loss, chain shortening and internal chain modifications typically encountered with classically mutated strains. In addition, amplification of the genes encoding the cytochrome-P450 and reductase components of the rate-limiting step of the omega-oxidation pathway resulted in a 25-30% improvement in productivity. (0 ref)

L86 ANSWER 14 OF 26 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB Omega-hydroxylase activity in *Candida tropicalis* is increased by increasing the gene dosage of at least 1 cytochrome-P450 gene. A new, transformed *C. tropicalis* strain contains at least 1 copy of the P450-ALK1 or P450-ALK2 and/or P450-RED genes, with disruption of host chromosomal POX4A, POX4B and/or POX5 genes. A new process for increasing the production rate of a pure long-chain alpha,omega-dicarboxylic acid comprises growth of the new strains in a culture medium containing an N-source, an organic substrate and a co-substrate. The *C. tropicalis* strain may be SU-2, H41, H41B, H43, H51, H53, H45, H534, H534B, H435 or H5343. The initial pH of the culture is 6.5, and is raised to and maintained at 8.3-8.8 after maximal cell density is reached. The substrate concentration is 10-20 g/l, and the co-substrate is added at 1.5-1.75 g/hr.1 alkaline medium. The substrate is a 4-22C alkane or ester, or a 12-18C fatty acid, e.g. dodecane, tridecane, tetradecane, methyl myristate, methyl palmitate, methyl palmitoleate, methyl oleate, oleic acid, linoleic acid, linolenic acid, palmitoleic acid, palmitic acid or myristic acid. (52pp)

L49 ANSWER 19 OF 151 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The process comprises culturing *Candida tropicalis* mutant PF-UV-56 in culture medium, fermenting in fermentation medium at 29-32°, pH 4.5-6.5, and 0.01-0.1 MPa for 12-20 h, regulating pH to 7.0, fermenting under complementing or adding batchedly 5-15 g/L C1-3 carboxylate or alc. as the second C-source before 1-3 h of production of long-chain dicarboxylic acid and controlling alkane content at 10-15%, and separating. The *C. tropicalis* mutant PF-UV-56 does not use alkane as the C source. The culture medium is composed of sucrose 10-40, phosphate 2-10, yeast extract 1-3, corn slurry 1-3, urea 1-4, NaCl 0.5-1.5, MgSO<sub>4</sub> 7H<sub>2</sub>O 0.5-3 g/L, vitamin B1 20-200 ppm, and C12-15 alkane 0-50 mL/L. The fermentation medium is composed of sucrose 20-40, phosphate 2-10, yeast extract 0.5-2, corn slurry 0.5-2, urea 1-2, NaCl 0.5-2.5, MgSO<sub>4</sub> 7H<sub>2</sub>O 0.5-2, ammonium salt 2-8, C1-3 carboxylate or alc. 5-15 g/L, vitamin B1 20-200 ppm, and C12-15 alkane 50-350 mL/L.

L49 ANSWER 38 OF 151 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB A new microorganism co-culture method for the production of long-chain alpha,omega-dicarboxylic acid, especially dodecadiatomic acid (DC12), production is claimed. *Candida tropicalis* is inoculated into a culture medium, whose matrix is n-alkanes containing 11-18C. The pH is controlled to 6.0-6.8 for thallus growth as a priority, and diatomic acids are supplied by limited output. When the optical density of thallus growth at an optical density (X30, 620 nm) reaches 0.2 and the pH is controlled at 7.0-7.8, different diatomic acids with the same chain length as the matrix are produced in high yield. After incubation for 40 hr, when the acid output reaches 33.3 g/l, then the output of acid is transferred for fermentation as a priority and can reach 145 g/l in 130 hr.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.18	371.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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